

## AUTOMATIC PLANETARY MIXER - IBERMIX

Ref. 111-100007/2

**Standards: EN 196-1, EN 459-2, EN 1744, EN 1015-11, EN 13454-2, ASTM C109, ASTM C305, BS 3892-1, BS 4551-1 and similar.**

NEW Planetary mixer, programmable, for the automatic execution of mixing cycles according to the standards for strength tests of cements, mortars and similar or free configuration for research works.

This new equipment has significant technical development, which makes it **one of the most advanced in the world** for this application.

### New electronic control module AP-43S

Integrated at the front of the machine, with 4.3" touch screen and IP66 protection, which is intuitive, safe, resistant and easy to use.

Acoustic warning signals and messages on the screen that inform and guide the user in its operation.

- › Operation instructions
- › Test standard EN or ASTM
- › Current speed (rotation and translation)
- › Current stage of mixing cycle
- › Remaining time
- › Detected alarms

The control module includes 4 predefined mixing cycles according to the most common testing standards.

It also includes the possibility of making free configurations, which allows users to program other mixing cycles according to their particular needs, whether they are not preset mixing methods, tests for research, etc.

If necessary, the AP-43S control module can be replaced by the own user without the need to contact IBERTEST Technical Service and without having to make adjustments to the machine.

### General characteristics

The **electric motor** is equipped with a frequency variator that maintains and ensures the speeds of the paddle, without being affected by eventual changes of mains voltage or mains frequency.

**Electrical speed change**, without mechanical drives, eliminates failures and maintenance costs.

**Automatic sand feeder.** The special design according to the test standard (EN or ASTM) ensures the discharge of the sand at a regular rate in the time specified by the testing standard.

**Additive dispenser** of liquid or solid.

**Optional automatic or manual water feeding device**, for mortar viscosity research tests optionally available.



111-100007/2



Automatic sand feeder and additive dispenser



AP-43S electronic module with 4.3" touchscreen display



IBERMIX control module start screen



IBERMIX mixing screen according to standard

**Bowl** of about 5 litres capacity, entirely made of stainless steel, with two handles. The bowl is securely fixed on its support with a simple half-turn movement.

The support of the bowl has an easy leveling system that allows the user to adjust finely the gap between the bowl and the edge of the paddle.

The **mixing paddle** is made in stainless steel, with shape, size and tolerances according to the standards. The fastening system is bayonet type, for quick and easy disassembling for cleaning.

## Specifications - Automatic programable planetary mixer

Reference	111-100007/2
Paddle movements	Paddle revolving about its own axis and driven in a planetary movement around the axis of the bowl, in opposite directions.
Paddle revolving speed	Adjustable from 10 to 300 min <sup>-1</sup> (rpm)
Paddle planetary movement speed	Adjustable from 0.5 to 133 min <sup>-1</sup> (rpm)
Sand feeder	Automatic
Gap between paddle and bowl	3 ± 1 mm (Adjustable by the user)
Preset mixing methods	For cement mortar according to EN 196-1 For cement mortar according to ASTM C305 For pure cement paste according to EN 196-3 For pure cement paste according to ASTM C305
Free configuration programs	Users can configure completely customized mixing programs, in a simple way by choosing number of stages, what to do in each one and its duration.
Available programming mixing steps.	<ol style="list-style-type: none"> <li>Mixing (with the desired speed).</li> <li>Mixing (with the desired speed) + Sand, with an acoustic warning <sup>1</sup> during the sand feeding.</li> <li>Cleaning. The equipment remains stopped with an acoustic alarm indicating the remaining time, for cleaning the paddle according to the standard.</li> <li>Pause. Time in which the equipment remains on hold during the set time.</li> <li>End. Indicates the end of the mixing program with an acoustic alarm<sup>1</sup> for the user.</li> </ol> <p>* The remaining time of each stage is displayed on the test screen, to know when it needs the user assistance.</p> <p><sup>1</sup> All acoustic warnings can be disabled at the user's convenience.</p>
Power consumption	500 W
Power supply	Single phase at 230 V + G ~ 50/60 Hz (others on demand)
Dimensions	Width x length x height : 440 x 630 x 795 mm
Net weight (not packaged)	93 kg



### Safety

**Body** made of steel, strong and stable, for smooth operation, without noise or vibration.

**Protection screen** against projections, made of transparent polycarbonate. It allows a clean and comfortable operation, while protecting the user from entrapments or strikes of the mixing paddle when operating.

**Bowl position**, the mixer does not allow operation while bowl is not in the safe mixing position.

**Nozzle for dust extraction** system that allows the connection of an external vacuum.

**Emergency stop:** Security switch that immediately stops the equipment.

### Spare parts and accessories

#### STAINLESS STEEL BOWL

- › According to EN 196-1. Ref. 111-100010
- › According to ASTM C305. Ref.111-100011

#### STAINLESS STEEL PADDLE

- › According to EN 196-1. Ref. 111-100008
- › According to ASTM C305. Ref. 111-100009

#### RUBBER SPATULA

Ref. 210-100991

#### SET OF TOLERANCE GAUGES

Ref. 111-100271

#### PORTABLE DIGITAL TACHOMETER. MOD HIBOK-24

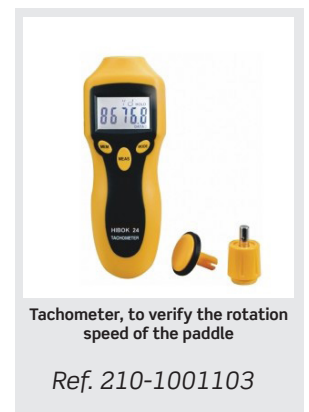
Ref. 210-101103



Bowl and paddle



Ref. 210-100991



Tachometer, to verify the rotation speed of the paddle

Ref. 210-1001103